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The Annexes (Amended Sheets) of the International Preliminary Examination
Report

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1 CLAIMS

2

3 1. A body protecting device for wearing by a user
4 comprising:

5 an outer surface; and

6 an array of energy absorbing cells,

7 wherein each cell comprises a tube,

8 and wherein substantially each tube has a side wall
9 which is connected to the side wall of at least
10 another tube substantially along the length of the
11 tube,

12 and wherein substantially each tube has a tube
13 axis arranged substantially normal to the outer
14 surface,

15 such that the orientation of each tube is
16 substantially maintained when a load is applied to
17 the outer surface.

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19 2. A body protecting device as claimed in Claim 1,
20 wherein the tube has a cylindrical or conical
21 structure.

22

23 3. A body protecting device as claimed in Claim 1
24 or 2, wherein the body protecting device comprises a
25 safety helmet.

26

27 4. A body protecting device as claimed in any
28 preceding claim, wherein substantially each tube has
29 a side wall which is connected to the side wall of
30 at least another tube by an adhesive.

31

1 5. A body protecting device as claimed in any of
2 Claims 1 to 3, wherein substantially each tube has a
3 side wall which is welded or fused to the side wall
4 of at least another tube.

5

6 6. A body protecting device as claimed in Claim 5,
7 wherein one or more tubes are formed from an inner
8 core comprising a first material and an outer core
9 comprising a second material.

10

11 7. A body protecting device as claimed in Claim 6,
12 wherein the second material has a lower melting
13 temperature than the first material.

14

15 8. A body protecting device as claimed in any
16 preceding claim, wherein substantially each tube is
17 connected to at least three other tubes.

18

19 9. A body protecting device as claimed in any
20 preceding claim, wherein substantially each tube is
21 connected to six other tubes.

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23 10. A body protecting device as claimed in any
24 preceding claim, wherein each tube has a diameter of
25 between 2 and 8 mm.

26

27 11. A body protecting device as claimed in any
28 preceding claim, wherein each tube has a diameter of
29 about 6 mm.

30

1 12. A body protecting device as claimed in any
2 preceding claim, wherein the thickness of the side
3 wall of each tube is less than 0.5 mm.

4

5 13. A body protecting device as claimed in any
6 preceding claim, wherein the thickness of the side
7 wall of each tube is between 0.1 and 0.3 mm.

8

9 14. A body protecting device as claimed in any
10 preceding claim, wherein the length of each tube is
11 less than 50 mm.

12

13 15. A body protecting device as claimed in any
14 preceding claim, wherein the length of each tube is
15 between 30 and 40 mm.

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17 16. A body protecting device as claimed in any
18 preceding claim, wherein the array of energy
19 absorbing cells is provided as an integral material.

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